

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 61270761
PUBLICATION DATE : 01-12-86

APPLICATION DATE : 27-05-85
APPLICATION NUMBER : 60113490

APPLICANT : HITACHI METALS LTD;

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INT.CL. : G03F 1/00 H01L 21/30

TITLE : MASK FOR FORMING PATTERN

ABSTRACT : PURPOSE: To enable use of a photomask for a long period by forming a diamond-like carbon film as a surface protective layer.

CONSTITUTION: After the photomask or an X-ray mask has been prepared, the diamond-like carbon film is formed on its surface by the CVD process including the plasma process and plasma injection process and the like, the ionization vapor deposition process, or the reactive ion sputtering process, or the like to obtain the surface protective layer, thus permitting the obtained carbon film to be high in hardness, chemically stable, and good in heat conductivity and electric characteristics, and this photomask to be used for a long period.

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